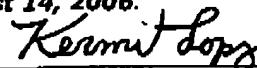


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AUG 14 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Alex Nugent**EXAMINER:** Mai T Tral**SERIAL NO.:** 10/748,631**GROUP:** 2129**FILED:** 12/30/2003**ATTY DKT NO.:** 1000-1216**TITLE:** APPLICATION OF HEBBIAN AND ANTI-HEBBIAN LEARNING TO
NANOTECHNOLOGY-BASED PHYSICAL NEURAL NETWORKS

CERTIFICATE OF TRANSMISSION BY FACSIMILE**Please forward all correspondence to:**ORTIZ & LOPEZ, PLLC
Patent Attorneys
P.O. Box 4484
Albuquerque, NM 87196-4484*I hereby certify that this correspondence is
being transmitted to the Commissioner for
Patents, P.O. Box 1450, Alexandria, VA
22313-1450 by facsimile transmission
to the following fax number (571) 273-8300
on August 14, 2006.*

Kermit Lopez

Mail Stop Non-Fee Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450**AMENDMENTS, REPLY AND REQUEST FOR RECONSIDERATION
UNDER 37 C.F.R. § 1.111**

Dear Sir:

In response to the Office Action dated June 29, 2006 in the above captioned matter, please enter the following amendments and remarks:

Amendments to claims begin on Page 2 of this Paper.

Amendments to the specification begin on Page 6 of this Paper.

Remarks begin on Page 7 of this Paper.

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SERIAL NO. 10/748,631